

ABSTRACT

The patch for tooth whitening of the present invention includes a tooth-adhering layer (1) containing erodible polymer complexes formed by hydrogen bonding of a polymer with a carboxyl group (-COOH) and a polymer with a carbonyl group (-C=O) or ether group (-O-) and a tooth whitening agent; and an erosion rate-controlling layer (2) containing a mixture of a hydrophilic polymer and a film-forming polymer, wherein the patch is in a film form and is characterized by being eroded until extinguished after releasing the tooth whitening agent. When applied to the teeth, the patch releases a peroxide tooth-whitening agent while being hydrated by water in the mouth during a prescribed period; and thereafter, eroded until extinguished, thereby not requiring an additional detaching work from the teeth. Therefore, the patch is convenient in use and greatly reduces an obstruction sensation. Moreover, the patch has an excellent whitening effect.